

ABSTRACT

The deep-rolling device (8) of a deep-rolling machine (1) for crankshafts (3) is made in scissor construction. Two swivellable scissor arms (9, 10) opposite each other each carry a deep-rolling roller head (13) or a backing roller head (14) respectively. The backing roller head (14) is fitted with two parallel-axis backing rollers, the rotational axes of which lie in a common plane. The backing roller head (14) also has an axial guide which is arranged in front of the backing rollers in swivel direction (35) for closing, the longitudinal axis of which guide stands perpendicular to the rotational axis of the crankshaft (3) and lies in a plane which forms an acute angle with the common plane of the rotational axes of the backing rollers, and the axial width of which is greater than the width of the backing roller head (14) and slightly smaller than the distance of adjacent oil collars of a main bearing journal or big end bearing journal.

Fig. 1 is intended for the abstract.